

## ABSTRACT

The invention provides a method for measuring the thickness, or non-uniformity of thickness, of one or more layers of a film or article such as a preform. At least one layer contains a known concentration and a substantially uniform distribution of fluorophores. The fluorophores are added to the one or more layers in sufficient quantity to impart fluorescence capable of detection by a detector when exposed to electromagnetic radiation at absorbing wavelengths. The layers of the invention may be made from polymeric material, non-polymeric material, or combinations thereof.

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